PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB

Substitute for form 1449A/PTO Complete if Known 10/626,984 **Application Number** INFORMATION DISCLOSURE July 25, 2003 Filing Dat Kawai, et al. STATEMENT BY APPLICANT First Named Inventor (use as many sheets as necessary) Art Unit Unassigned Unassigned Examiner Name 2 013.0207.US.UTL **Attorney Docket Number** Sheet of

	U.S. PATENT DOCUMENTS							
		Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where			
Examiner Initials*	Cite No.	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
[]]1		US-5,477,451	12/19/1995	Brown et al.				
N 13		US-5,799,276	08/25/1998	Komissarchik et al.				
F17P		US-5,867,799	02/02/1999	Lang et al.				
COH		US-6,026,397	02/15/2000	Sheppard				
HL		US-6,148,102	11/14/2000	Stolin				
WH		US-6,598,054	07/22/2003	Schuetze et al.				
414	Ī	US-6,137,911	10/24/2000	Zhilyaev				
प्रध		US-2002/0184193	12/05/2002	Cohen				
		US-						
		US-						
		US-						
		US-						
	T	US-						
		US-						
		US-		•				
		US-						
		US-						
		US-						
		US-		-				
	1	US-						

	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	۲⁴		
						<u> </u>		
						_		

Examiner Signature	Leon Harr	Date Considered	2-10-00

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*Applicant's unique citation designation number (optional). \*See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04.

\*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \*Applicant is to place a check mark here if English language Translation is attached. Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the Individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Mail Stop IDS, PO Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB

Complete if Known Substitute for form 1449B/PTO 10/626,984 **Application Number** Filing Date July 25, 2003 INFORMATION DISCLOSURE **First Named Inventor** Kawai, et al. STATEMENT BY APPLICANT Unassigned **Group Art Unit** (use as many sheets as necessary) Examiner Name Unassigned 2 2 013.0207.US.UTL Attorney Docket Number Sheet of

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	<del>ر</del> م
FJ14		D. SULLIVAN, "Document Warehousing And Text Mining, Techniques For Improving Business Operations, Marketing, And Sales," Chs. 1-3, Wiley Computer Publishing (2001).	
MA		LINHUI, JIANG, "K-Mean Algorithm: Iterative Partitioning Clustering Algorithm," <a href="http://www.cs.regina.ca/-linhui/K">http://www.cs.regina.ca/-linhui/K</a> mean algorithm.html, (2001) Computer Science Department, University of Regina, Saskatchewan, Canada.	
1714		KANUGO et al., "The Analysis Of A Simple K-Means Clustering Algorithm," pp. 100-109, PROC 16th annual symposium of computational geometry (May 2000).	
MH	,	PELLEG et al., "Accelerating Exact K-Means Algorithms With Geometric Reasoning," pp. 277-281, CONF on Knowledge Discovery in Data, PROC fifth ACM SIGKDD (1999).	
ひみ		JAIN et al., "Data Clustering: A Review," Vol. 31, No. 3, ACM Computing surveys, (September 1999).	
		·	ļ

Examiner Signature	Sean	) Har	2	Date Considered	2-10-06
	<del></del>				

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, PO Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Mail Stop IDS, PO Box 1450, Alexandria, VA 22313-1450.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

ľ	Sut	ostitute for form 1449A/PTO			Complete if Known		
					Application Number	10/626,984	•
	11	NFORMATION D	ISCLOS	SURE	Filing Date	July 25, 2003	
K	S	TATEMENT BY	APPLIC	CANT	First Named Inventor	Kawai, K.	
	١	(1)00 00 00000 00 0000			Art Unit	2176	
واد	Sheet	(Use as many sheets a	s necessary)	<del></del>	Examiner Name	Unassigned	
		1	of	2	Attorney Docket Number	013.0207.US.UTL	
27			_				

			U.S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number - Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
7 19		US-5,488,725	01-30-1996	Turtle et al.	
_هاند		US-5,056,021	10-08-1991	Ausborn	
174		US-6,173,275	01-09-2001	Caid et al.	
ハア		US-6,446,061	09-03-2002	Doerre et al.	
M19_		US-6,510,406	01-21-2003	Marchisio	
-719_		US-6,675,159	01-06-2004	Lin et al.	
-112		US-6,560,597	05-06-2003	Dhillon et al.	
719		US-6,701,305	03-02-2004	Holt et al.	
715		US-6,711,585	03-23-2004	Copperman et al.	
	!	i			

	FOREIGN PATENT DOCUMENTS							
Examiner	<u></u>	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	Т		
Initials*	No.	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>		
	-							
	-				<u></u>	ļ		
						<del> </del>		
	<del> </del>							
						<del> </del>		
						<del>                                     </del>		

Signature 1000 ) How Date 12-10-00				
Signature 11/04 1 Heavill	Examiner		Date	
Signature   Considered   / Till ( ) ( )	Cionatura	7() ~ ) Heal	1 0016	17-16-06
	Signature		Considered	17-10-06

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 'Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 'Applicant is to place a check mark here if English language Translation is attached.' Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

013.0207.US.UTL

PTO/SB/08b (08-03)
Approved for use through 06/30/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Substitute for form 1449B/PTO Complete if Known 10/626,984 **Application Number INFORMATION DISCLOSURE** Filing Date July 25, 2003 First Named Inventor STATEMENT BY APPLICANT Kawai, K. Art Unit 2176 (Use as many sheets as necessary) **Examiner Name** Unassigned Sheet 2

Attorney Docket Number

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
F719		CHRISTINA YIP CHUNG et al, "Thematic Mapping – From Unstructured Documents To Taxonomies," CIKM'02, November 4-9, 2002, pp. 608-610, ACM, McLean, Virginia, USA.	
L) W		HIROYUKI KAWANO, "Overview of Mondou Web Search Engine Using Text Mining And Information Visualizing Technologies," IEEE, 2001, pp. 234-241.	
りる		JAMES OSBORN et al "JUSTICE: A Judicial Search Tool Using Intelligent Concept Extraction," ICAIL-99, 1999, pp. 173-181, ACM.	
M		CHEN AN et al "Fuzzy Concept Graph And Application In Web Document Clustering," 2001, pp. 101-106, IEEE.	
		·	

Examiner	V	. ( )	Dete	
	$\neg 1 \wedge$	1 1 100	Date	10 10 -01
Signature i	$\omega \omega$		Considered	12711706
EVALUATED. 1	W-17 1		Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Applicant's unique citation designation number (optional). 'Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08a (08-03)
Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Substitute for form 1449A/PTO

(Use as many sheets as necessary)

Complete if Known 10/626,984 **Application Number** Filing Date 7/25/2003 First Named Inventor Kawai et al. Art Unit 2176 Unassigned Examiner Name 013.0207.US.UTL Attorney Docket Number

			U.C. DATENT	DOCUMENTS	<u>.</u>			
	U.S. PATENT DOCUMENTS							
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where			
Initials*	No.	Number - Kind Code <sup>2</sup> (# known)	MM-DD-YYYY	Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
74		US-2003/0110181	06-12-2003	Schuetze et al.				
		US-						
		US-						
		US-						
		US-						
		US-						
		US-						
		US-						
		US-						
		US-						
		US-						
		US-						
\ <u> </u>		US-						
		US-						
		US-						
		US-						
		US-						
		US-						
		US-						
	1	US-						

2

		FOREIG	N PATENT DOCU	IMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
LIL		WO 03/060766	07-24-2003	Elucidon AB		
LNY		EP 1 024 437	08-02-2000	Xerox Corporation		
						<u> </u>
						<u> </u>
						<u> </u>
						ļ
						<u> </u>
			Ì			1

Examiner	30-1	A	Date	7 10 00
Signature	ocon )	Haven	Considered	2-10-06

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CER 1.07 and 1.09. The information is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b (08-03)
Approved for use through 06/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

ø

Examiner

	Substitute for form 1449B/PTO				Complete if Known			
	INFORMATION DISCLOSURE					Application Number	10/626,984	
					JRE	Filing Date	7/25/2003	
J		STATEMENT BY APPLICANT				First Named Inventor	Kawai et al.	
ų	STATEMENT BY APPLICANT			~! • !	Art Unit	2176		
	<u>[i]</u>	(Use as many sheets as necessary)				Examiner Name	Unassigned	
	Sheet					Attorney Docket Number	013.0207.US.UTL	
į	/							
1		,				T LITERATURE DOCUMENTS		
	Examiner Initials*	Cite No.	Include name of the author (in CAPITAL magazine, journal, serial, symposium,			LETTERS), title of the article (when appropriate), title of the item (book, n, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	WH		F. Can., "Incremental Clustering For Dynamic Information Processing," ACM Transactions On Information Systems, Vol. 11, No. 1, pp. 143-164 (April 1993).					
	<del></del>							
			-					
	1/12 SALL		And the second s					
					I Water all the second			
	p	,,,,						

Doon ans Signature EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

Date

Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation in not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). \*Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.